CIA-RDP86-00513R001341720018-4 "APPROVED FOR RELEASE: 06/15/2000

17(4)AUTHOR:

Polezhayev, L. V.

SOV/20-127-3-67/71

TITLE:

Restoration of the Regenerative Capacity of the Extremities of

Axolotls After Exposure to X-Rays

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 713-716 (USSR)

ABSTRACT:

It is known that the exposure to X-rays during a certain interval suppresses the reparative regenerative capacity of some animal species (Refs 1, 3, 5). The homoplastic transplantation of nonirradiated tissues to an extremity which had been exposed to X-rays causes the regeneration of the organ in the place of the transplanted tissues after the amputation of this organ; the quality of the regenerated organ depends on the origin of the transplanted tissue: if an extremity was transplanted an extremity is regenerated, if a tail was transplanted a tail is regenerated (Refs 16, 18). In other words, the non-irradiated tissues of the organs are the source of regeneration. There exist data on the fact that these non-irradiated transplanted tissues involve the irradiated tissues of the organ to which they were transplanted in the regenerative process of the organ. Even nonirradiated tissues (of the heart, the lungs, the liver)

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Restoration of the Regenerative Capacity of the Extremities of Axolotls After Exposure to X-Rays

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can stimulate the tissues of the extremities of the axolotl to which they were transplanted to a certain degree of regeneration without regenerating themselves. The author has carried out investigations of the problem mentioned in the title (Refs 6-10) for many years. In the course of these investigations he decided to find out whether some of this methods could be used for the restoration of the suppressed regenerative capacity of the irradiated organs. He experimented on the principle of organospecificity or biochemical affinity of homologous organs. Regeneration was physiologically influenced by influencing the metabolism of the organism and the concerning organ by tissue proteins and nucleoprotides as well as disintegration products of these two substances from similar organs. 70 hind legs of 40 one-year-old axolotls were operated and exposed to X-rays up to the basis. The other parts of the body were screened by the lead plate (thickness: 4 mm). A dose of 7000 r entirely suppressed the regenerative capacity of the extremities. The results obtained agree well with those obtained by other research workers (Refs 4, 11, 15). But there was also new experience gained:

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Restoration of the Regenerative Capacity of the Extremities of Axolotls After Exposure to X-Rays

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(1) the treatment of axolotls by homogenates of the extremities of axolotls and, above all, rats caused the entire restoration of the regenerative power of the irradiated extremities.

(2) Native proteins and, probably, nucleic acids of the non-irradiated tissues seem to be inot important in this regeneration. There are 4 figures and 18 references, 15 of which are Soviet.

ASSOCIATION: Institut morfologii zhivotnykh im. A. N. Severtsova Akademii nauk SSSR (Institute of Zoomorphology imeni A. N. Severtsov of the Academy of Sciences, USSR)

PRESENTED: February 28, 1959, by K. I. Skryabin, Academician

SUBMITTED: November 11, 1958

Card 3/3

POLEZHAYEV, L.V.; MANT'YEVA, V.L.

Effect of biological preparations on protein synthesis under normal conditions and in injuries of the myocardium in rats. Eksper. khir. 5 no. 2:52-53 Mr-Ap '60. (MIRA 14:1) (HEART) (PROTEIN METABOLISM) (BLOOD PROTEINS)

POLEZHAYEV, L.V.

Experimentally induced changes in the growth of the mammalian body and individual organs. Zhur.ob.biol. 21 no.2:138-144
Mr-Ap '60. (MIRA 13:6)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR. (TISSUE EXTRACTS) (GROWTH)

"Experimental surgery of the muscles" by A.N. Studitskii.
Reviewed by L.V. Polezhaev. Arkh. anat. gist. embr. 39 no. 10:122124 0 '60.

(MUSCLES-SURGERY) (STUDITSKII, A.N.)

POLEZHAYEV, L.V.; MANTIYEVA, V.L.

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Variations in the assimilation of cardiac hydrolysates and extracts by different organs and the effect of these preparations on protein synthesis in normal rats and rats with cardiac injuries. Dokl.AN SSSR 133 no.2:492-495
J1 160. (MIRA 13:7)

1. Institut morfologii zhivotnykh imeni A.W. Severtsova Akademii nauk SSSR. Predstavleno akademikom A.N.Bakulevym. (TISSUE EXTRACTS) (HEART-WOUNDS AND IMJURIES)

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S/020/61/138/002/024/024 B103/B220

27, 1220 also 1565

Polezhayev, L. V., Teplits, N. A., and Yermakova, N. I.

TITLE:

AUTHORS:

Restoration of the regenerative power of the extremities of Axolotls, which had been suppressed by X-ray irradiation, by means of proteins, nucleic acids, and lyophile tissues

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 138, no. 2, 1961, 477-480

TEXT: The aim of the paper was to clarify whether: 1) the regenerative power suppressed by exposure to X-rays is restored by the injections still to be mentioned, 2) the irradiation effect may be overcome by fresh homogenates of bloodforming organs. Axolotls of black and white breed were tested. They were narcotized in the water by means of ether and then exposed in the X-ray apparatus PVN-200 (RUP-200) to a dose of 7000 r (intensity of dose 636 r/min) for 11 min In case 1) the hind legs, the body being screened off, in case 2) the whole body (dose: 1000 r, intensity of dose 50 r/min) were irradiated. Case 1) 16 to 18 days after irradiation, both hind legs were amputated at the distal part of the tibia. 15 control animals received no further treatment. The remaining Axolotls

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Restoration of the regenerative power...

were treated with injections of 1 ml of the preparation concerned as suspension or solution in 0.65 % physiologic sodium chloride solution for cold-blooded animals applied into the right hind leg or into the muscles of the back. The solvent for acid protein consisted of: KCl 1 g, NaCl 1 g, K_2HPO_4 5 g, H_2O 1000 ml. Case 2) The preparations were injected at the same places, but two days after irradiation. Production of the preparations in case 1): Lyophile tissues in test tubes were frozen at -78°C in a mixture of dry ice and alcohol and dried for $48\ \mathrm{hr}$ in the vacuum at -78^{o} and at -10°C to room temperature: liver 2.5 g, spleen 1.0 g, thigh muscles 2.5 g, skin of rats (shaved and cleaned with alcohol) as well as red bone marrow of rabbits 0.3 g. The test tubes containing the dried tissue were sealed and a weighed portion was pulverized before use and mixed with 10.0 ml of the mentioned sodium chloride solution. Fractions of liver cell nuclei were prepared according to the modified method of Shovo (Ref. 2: G. P. Georgiyev et al., Bickhimiya, 25, 318, 1960), ribonucleic acid (RNA) and demoxy ribonucleic acid (DNA) according to the phenol method (Ref. 1); they were free of protein. The acid protein contained neither RNA nor DNA. Production of preparations in case 2):

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Restoration of the regenerative power...

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Tissues forthcoming from liver and spleen of rabbits were pulverized in a mcrtar and injections of 1.0 ml were applied immediately to the experimental animals. These contained: raw substance of liver 0.1 g, of spleen and red bone marrow 0.03 g each. All preparations were injected for 7 days with daily single doses of: nuclei 0.013 g, DNA 0.002 g, RNA 0.003 g, liver protein 0.11 g, acid protein 0.01 g. The authors studied the modifications produced in the tissues by the above preparations. A regeneration of legs with 5 and 4 toes was regarded as typical, the formation of misshaped legs with 3 or 2 toes as atypical. The formation of conical protuberances, knolls or an uncomplicated cicatrization were considered as missing regeneration. The results are represented in Table 1. The authors state that in this case, contrary to their former experiments and due to inexplicable reasons, the regenerative power of the legs was not suppressed completely by 7000 r, although the difference between test and control was sometimes sufficiently evident. In the second part of the test (case 1), the legs of the control animals were amputated again. This time, the regenerative power was restored in 56.7 % of the cases spontaneously without any additional treatment, whereas after the first amputation 13.3 % of regenerations were found.

S/020/638/138/002/024/024 B103/B220

Restoration of the regenerative power...

The most effective means to restore the regenerative power of irradiated legs were found to be: after the first amputation: RNA, then proteins, and finally lyophile muscles; after the second amputation: proteins, RNA, lyophile muscles, and finally spleen. DNA, cell nuclei, and further preparations were ineffective. Thus, the authors conclude that RNA and proteins play a different role in the various stages of the restoration of the regenerative power. In case 2), no success was achieved. The animals grew thin, ate little, were taken ill with Saprolegnia, and finally perished after 1-1.5 months. Intensive degeneration of liver and splcen showed the typical symptoms of irradiation disease. No differences were perceptible between the control and the experimental animals. There are 1 figure, 1 table, and 11 references: 8 Soviet-bloc and 3 non-Soviet-bloc. The reference to the English-language publication reads as follows: Ref. 10: M. G. Sevag, D. B. Zackmann, J. Smolenz. J. Biol. Chem., 124, 425 (1938).

ASSOCIATION: Institut morfologii zhivotnykh im. A. N. Severtsova Akademii nauk SSSR (Institute of Animal Morphology imeni A. N. Severtsov, Academy of Sciences USSR)

Card 4/6

POLEZHAYEV, L.V.; AKHABADZE, L.V.; ZAKHAROVA, N.A.; YAVICH, M.P.

Effect of pyrogenal and myocardial hydrolyzate on the regeneration of the heart muscle. Dokl.AN SSSR 138 no.3:714-717 My '61.

(MIRA 14:5)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR.

Predstavleno akademikom A.N.Bakulevym.

(Heart—Muscle) (Regeneration (Biology))

(Pharmacology) (Tissue extracts)

POLEZHAYEV, L.V.

Transformation of tissues implanted in a dog tooth. Dokl. AN SSSR 141 no.4:994-997 D '61. (MIRA 14:11)

l. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR.

Predstavleno akademikom Yu.A. Orlovym.

(Tissues—Transplantation)

(Teeth)

MATVEYEVA, Anfwlina Ivanovna[deceased]; POLEZHAYEV, L.V., prof., otv. red.; NIKITINA, O.G., red. Gizd-va; ASTAF'YEVA, G.A., tekhn. red.

[Replacement of skull defects with regenerating bone; the destruction method] Zameshchenie defektov cherepa regeneriruiushchei kost'iu; metod destruktsii. Moskva, Izd-vo Akad. nauk
SSSR, 1962. 136 p. illus. (MIRA 15:3)
(SKULL-WOUNDS AND INJURIES)
(BONE GRAFTING)

8/020/62/144/004/024/024 B144/B138

Polezhayev, L. V., Teplits, N. A., and Tuchkova, S. Ya.

AUTHORS :

Significance of proteins and ribonucleic acids in the

restoration of the x ray-inhibited regenerative capacity

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 4, 1962, 930-933 TITLE:

TEXT: This study deals with 4 problems: I) Role of RNA, DNA, and proteins (P) in the regeneration of the limbs of axolotls (A) after irradiation and in the prevention of x-ray ulcers; II) effect of prophylactic RNA and P administration on the regenerative capacity; III) time of optimum effect; IV) effect on radiation disease. There were two test series: a) Local irradiation of the hind limbs with 10,000 r and subsequent amputation, and b) whole-body irradiation with 1000 r. Both included numerous groups with individual or combined administration of RNA, DNA, liver P, and acid P after or before amputation (in a) or irradiation (in b). 90 days after amputation the locally irradiated A were subjected to reamputation. I: Treatment with RNA and P, respectively, after amputation resulted in 33%

Card 1/3

Significance of proteins and...

S/020/62/144/004/024/024
B144/B138

PRESENTED: December 29, 1961, by A. N. Bakulev, Academician

SUBMITTED: December 12, 1961

Card 3/3

POLEZHAYEV, I.-V.

Restoration of the regenerative capacity inhibited by X-ray irradiation. Izv. AN SSSR. Ser. biol. 31 no.1: 37-58 Ja-F '66. (MIRA 19:1)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR.

37759-66 EWT(1)/DWT(m)/T JK C NR: AP6028235	SOURCE CODE: UR/0216/66/000/001/0037/0058
THOR: Polezhayev, L. V.	\mathcal{E}
G: Institute of Animal Morphology im	. A. N. Severtsov, AN SSSR (Institut morfologii
ivotnykh AN SSSR)	
TLE: Restoration of regenerative cap	pacity suppressed by irradiation with x-rays
DURCE: AN SSSR. Izvestiya. Seriya b	piologicheskaya, no. 1, 1966, 37-58
OPIC TAGS: experiment animal, radiati	ion biologic effect, RNA, tissue physiology,
rug effect	ct conducted by the author and his
BSTRACT: Research on the subjective or axolotis is reviewe	d. It was established that local
rradiation with x-rays in a dos	e of 7.000-10.000 r suppressed the
apacity of axototis to regenera	the wounds on the stumps, X-ray
3% of cases. After hearing of	Tens time developed in a number of .
ases. Injection to axolotls wi	th irradiated legs of homogenates or tissues of mammals (rats or rab-
f muscles, liver, and some owner	The second was a second was a second real
its), of protein, and quive par	the lost restoration of the lost
ith a high degree of polymoriza-	of cases. When repeated amputa- addition to this, restoration of
ion of legs was carried out in	addition to this, restoration of place in up to 70-100% of cases.
he regenerative capacity took I	500 003
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CCLEZHAYEV, L.V.; MALIOVAMOVA, S.D.

Origins and mechanism of regeneration of the mesencephalon in tadpoles of Rana temporaria, Dokl. AN SEER 165 no.4:951-954 D 465. (MIRA 18:12)

。 1985年,1986年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,19

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSCR. Submitted January 23, 1965.

POLEZHAYEV, Lev Vladimirovich, prof.: AKHABADZE, Lyubov' Viktorovna;

MUZLAYEVA, Nina Andreyevna; YAVICH, Marina Pinkhusovna; :

KOSOBUTSKI VIII (1988)

[Stimulation of the regeneration of the heart muscle] Stimulation of the heart muscle] Stimulatio

1. Akademiya nauk SSSR, Institut morfelogii zhivetnykh.

POLEZHAYEV, L.V.

Characteristics of changes in the regenerative capacity of the organs in animals. Arkh. anat., gist. i embr. 48 no.2:67-74 F '65. (MIRA 18:8)

1. Institut morfologii zhivotnykh imeni A.N.Severtsova AN SSSR, Moskva.

POLEZHAYEV, L.V.; KOLCHIN, S.P.; SOLNTSEVA, G.N.

Stimulation of regeneration of the heart muccle in diphtherial myocarditis. Dokl. AN SSSR 164 no.4:949-952 0 '65.

(MIRA 18:10)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR. Submitted April 27, 1965.

L 55949-65

ACCESSION NR: AP5018502

UR/0020/64/159/003/0682/0685

AUTHOR: Polezhayev, L. V.; Teplits, N. A.; Tuchkova, S. Ya.

12 B

TITLE: Restoration by means of nucleic acids of the regenerative capacity of the extremities of axolotl after suppression of this capacity by irradiation with x-rays

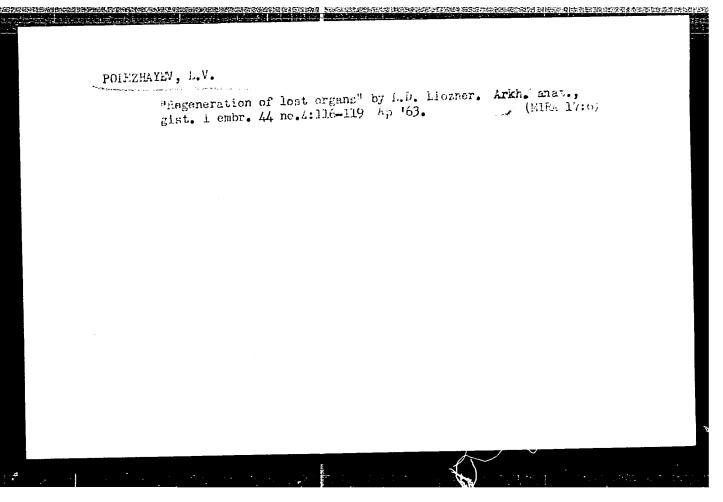
SOURCE: AN SSSR. Doklady, v. 159, no. 3, 1964, 682-685

TOPIC TAGS: experiment animal, neoplasm, nucleic acid, biologic reproduction, x ray irradiation, ribonucleic acid, desoxyribonucleic acid

Abstract: After local irradiation of both extremities of axolotl with x-rays in a dose of 1,000 r, the regenerative capacity of the extremities following amputation was restored not only by RNA, but also by DNA, if the latter was administered immediately after irradiation and not, as in former experiments, on passage of a time (latent period) during which the aftereffects of radiation accumulated. X-ray tumors and nexroses developed on the stumps of extremities that failed to regnerate both in animals treated and not treated with RNA or DNA but did not develop when the capacity for regeneration was restored or when stumps with tumors were amputated or partly amputated after treatment of the animals with RNA. INA did not prevent tumors

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in the la formation were com high-pol- ducing la animals	ON NR: AP5018502 atter case. On development of regenerated tissue, pletely suppressed. Admirately suppressed attackness to a factor of 2. Orig.	ent of x-ray tumors, dediffered and form development lead inistration to axolotle of er total irradiation with increased the average time art. has 6 figures and 1 to gii zhivotnykh im. A. N. Se Morphology, Academy of Sci	a dose of x-rays pro- e of survival of the able.
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POLEZHAYEV, L.V. (Moskva V-333, 2-y Akademicheskiy pr., d.4, kv.4);
AKHABADZE, L.V.; MUZLAYEVA, N.A.; YAVICH, M.P.

Stimulation of the regeneration of the myocardium in inhibited cicatrization. Grud. khir. 5 no. 2:47-54 Mr-Ap 163. (MIRA 17:2)

1. Iz laboratorii eksperimental'noy morfologii zhivotnykh (zav.-prof. L.V.Polezhayev) Instituta morfologii zhivotnykh imeni A.N.
Severtsova (direktor - chlen-korrespondent AN SSSR G.K.Khrushchov).

到的表面的特殊的主要的企业,但是不是一个企业,但可以中国的特殊的企业的企业的企业的企业,但是一个企业的企业的企业的企业的企业的企业的企业的企业,但是一个企业的企

POLEZHAYEV, L.V.; TEPLITS, N.A.; TUCHKOVA, S.Ya.

Factors in the restoration of the X-ray suppressed regeneration capacity of the extremities in exclotis. Dokl. AN SSSR 150 no.3:694-697 My 163. (MIRA 16:6)

1. Institut morfologii shivotnykh im. A.N. Severtsova AN SSSR. Predstavleno akademikom A.N. Bakulevym.

(Axolotls) (X rays--Physiological effect)

(Regeneration(Biology))

POLEZHAYEV, L.V.; KARNAUKHOVA, E.N.

Stimulation of the multiplication of nerve cells in the cerebral cortex of mammals. Dokl. AN SSSR 150 no.2:430-433 My 163.

(MIRA 16:5)

1. Predstavleno akademikom K.I.Skryabinym.
(Cerebral cortex) (Nerves, Cranial)

I. 10825-63 EWT(m)/BDS/ES(b)--AFFTC/ASD--K

ACCESSION NR: AP3000760 S

\$/0020/63/150/003/0694/0697

AUTHOR: Polezhayev, L. V.; Teplits, N. A.; Tuchkova, S. Ya.

TITLE: Regeneration ability of axolotl extremities after X-ray irradiation

SOURCE: AN SSSR. Doklady, v. 150, no. 3, 1963, 694-697

TOPIC TAGS: amputation trauma, ribonucleic acid, desoxyribonucleic acid, regeneration ability, radiation disease

ABSTRACT: The authors investigated the following in this study: (i) does the regeneration percentage of irradiated extremities increase after repeated amputations on account of the effect of the amputation trauma or does it increase on account of the time factor, in the course of which the irradiated tissues are normalized by the non-irradiated tissues and internal humoral media, (ii) which ribonucleic acid is effective: highly-polymeric, freshly-prepared, or one that has been stored for a long time prior to use, (iii) is desoxyribonucleic acid active, (iv) is it necessary to treat the irradiated animals one or more times with the preparations so that the regenerative effect could be attained, (v) how effective is ribonucleic acid in the fight against radiation disease. Authors conclude that the amputation trauma is appreciable and the time factor does not have too great a

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L 10825-63 ACCESSION NR: AP3000760

bearing on the establishment of regenerative capability of the axolotl's extremities which were suppressed by X-ray irradiation. The biological activity of laboratory-prepared highly-polymeric ribonucleic acid is reduced during prolonged storage. Commercial ribonucleic acid and desoxyribonucleic acid are not biologically-active. The regenerative ability which was suppressed by irradiation can be restored only with a single treatment of the animals with specific doses of ribonucleic acid and albumen. The medicinal and especially prophylactic treatment of the animals with ribonucleic acid increases their resistance and increases their life span by 37% in the case of radiation disease. Orig. art. has: 1 table.

ASSOCIATION: Institut morfologii zhivotny*kh im. A. H. Severtsova, akademii nauk SSSR (Institute of Animal Morphology, Academy of Sciences SSSR)

SUBM-TTED: 26Nov62

DATE ACQD: 21Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 008

OTHER: 001

16/*lu* Card 2/2

POLEZHAYEV, L.V.; TEPLITS, N.A.; TUCHKOVA, S.Ya.

Role of proteins and nucleic acids in the restoration of the regenerative capacity of the extremities in axolotls, supressed by X rays. Dokl.AN SSSR 144 no.4:930-933 Je 162. (MIRA 15:5)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR. Predstavleno akademikom A.N.Bakulevym. (Regeneration (Biology)) (X rays—Physiological effect) (Axolotls)

POIE ZHAYEV, L.V.; AKHABADZE, L.V.; MUZLAYEVA, N.A.; YAVICH, M.P.

Regeneration of a rat's myocardium as an effect of ribonucleic acid and pyrogenal treatment. Dokl.AN SSSR 145 no.5:1180-1183 '62. (MIRA 15:8)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR.

Predeficience absolute acid acids (HEART—MUSCLE) (REGENERATION (BIOLOGY))

POLEZHAYEV, L.V.

Regeneration of the cardiac muscle in rabbits following the implantation of a muscle treated with trypan blue. Dokl.AN SSSR (MIRA 15:7) 145 no.3:681-684 Jl 62.

l. Institut morfologii zhivotnykh imeni A.N.Severtsova AN SSSR. Predstavleno akademikom Yu.A.Orlovym. (HEAT-MISCLE) (REGENERATION (BIOLOGY)) (TRYPAN BLUE)

L 8222-66 EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) IJP(c) MJW/JD/JG

ACC NR: AP5026272 SOURCE CODE: UR/0226/65/000/010/0038/0046

AUTHOR: Andreyev, V. V. (Moscow); Bobrov, G. V. (Moscow); Polezhayev, M. A. (Moscow)

ORG: none

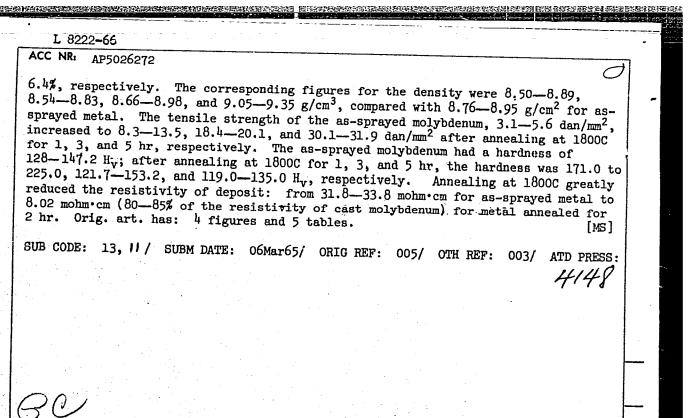
TITLE: Manufacturing parts from molybdenum by plasma spraying

SOURCE: Poroshkovaya metallurgiya, no. 10, 1965, 38-46

TOPIC TAGS: metal deposition, molybdenum deposition, molybdenum spraying, plasma spraying, deposited molybdenum structure, deposited molybdenum property, MOLYBDENUM

ABSTRACT: Tubular parts of various sizes and shapes were made of molybdenum by plasma arc spraying on AD-1 AMTs; or D16 aluminum alloy patterns. The spraying was done with a mixture of argon and helium in a 4 to 1 ratio. The deposits were annealed in a hydrogen atmosphere at 1200—1800C for 1—4 hr. The as-sprayed metal consisted of distinct layers of polycrystalline molybdenum interspersed with layers of nonmetallic inclusions and voids. Annealing at 1800C makes the layered structure less distinct and reduces the thickness of the interspersed layer, which then becomes similar to the grain boundaries of cast or wrought metal. Annealing at 1200—1400C, however, had no effect on the structure of deposited metal. A second phase, probably consisting of molybdenum oxides, was identified in the as-sprayed deposit. However, no second phase was observed after annealing at 1800C for 1 hr. The volume shrinkage of deposited molybdenum annealed for 2 hr at 1200, 1400, 1600, and 1800C was 1.0, 1.6, 5.8, and

Card 1/2



EPA(s)-2/EMT(m)/EMP(v)/T/EMP(t)/EMP(k)/EMP(b)/EMA(c) Pf-4 L 40286-65 JD/HM S/0135/65/000/001/0030/0031 ACCESSION NR: AP5002890 AUTHOR: Vinogradov, V. S. (Candidate of technical sciences); Polezhayev, M. (Engineer) TITLE: Vacuum tight welding of armco iron to copper SOURCE: Svarochnoye proizvodstvo, no. 1, 1965, 30-31 TOPIC TAGS: welding, iron copper welding, weld inhomogeneity, weld joint diffusion, armco iron, copper welding ABSTRACT: The main difficulties during the welding of armco-iron to copper are due to the difference in physico chemical properties of the two metals, the high heat conductivity of copper, and its ability to absorb gases actively. In order to study the problem more closely, the authors welded samples automatically using tungsten electrodes in argon. They uncovered certain non-uniformities in the weld-generated compound. Prolonged exposure to high temperatures (650C) led to intensive diffusion which partly reduced the above-mentioned non-uniformities within the seam. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: MATI

Cord

VINOG	RADOV, V.S., mend. tekhn. nauk; POLETHAYEV, M.A., inzh.	
	Welding vacuum-tight seams to join Armeo-iron wish copper.	
	(MINA 18:3) 1. Moskovskiy aviatsionnyy tekhnologicheskiy (nstitut.	

ANDREYEV, V.V. (Moskva); BOEROV, G.V. (Moskva); POLEZHAYEV, M.A., (Moskva)

Making molybdenum parts by the method of plasma spraying.

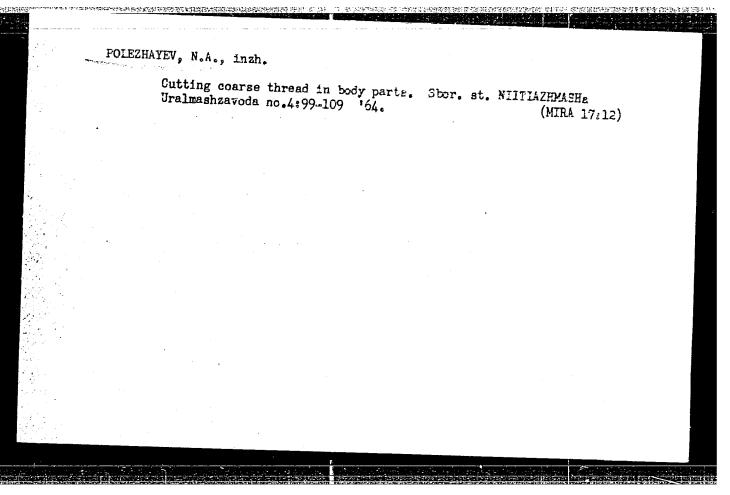
Porosh. met. 5 no.10:38-46 0 '65. (MIRA 18:11)

ANTIPENKO, L.A., inzh.; FCHIZHKYHV, M.M., inzh.

Results of industrial tests of ejector flotation machines at the "Tomusinskaia 1-2" chal preparation plant. Nauch. trudy KuzNIIUgleobog. no.2all6-122 *64. (MIRA 17:20)

VASIL'YEV, A.D., inzh.; LOCHKAREV, F.A., tekhnik; POLEZHAYEV, M.M., inzh. Automatic control of the density and flow of pulp in feeding flotation machines at the "Tomusinskaia 1-2" preparation plant. Nauch. trudy Kuz-

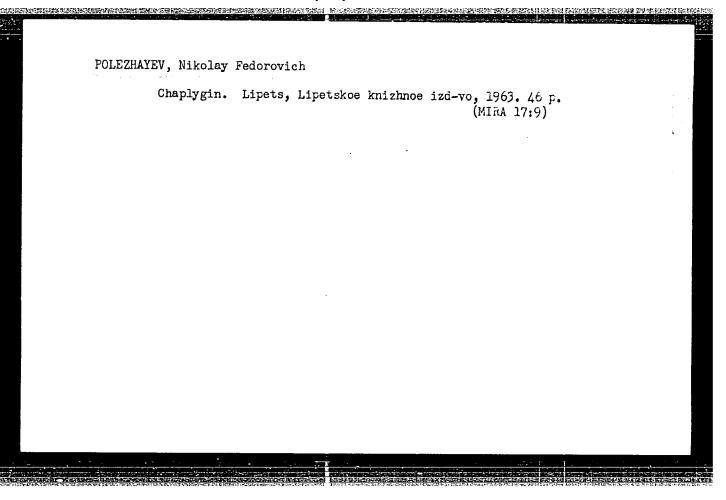
NITUgleobog. nc.2:132-136 164. (MIRA 17:10)

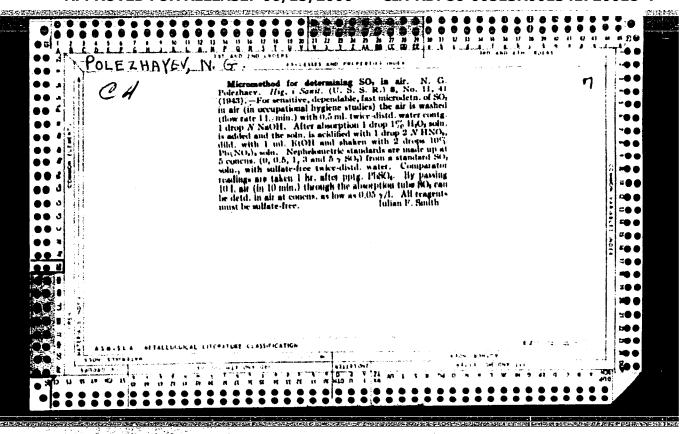


ARBUZOV, B.A.; POLEZHAYEVA, N.A.; VINOGRADOVA, V.S.; SHAMSUTDINOVA, A.K.

Products of interaction of chloroacetone and \(\mathcal{O}\)-brompacetophenone with diphenylphosphinic acid esters. Izv. AN SSSR. Ser. knim. no.4: 669-678 *65. (MIRA 18:5)

1. Khimicheskiy institut im. A.M.Butlerova Kazanskogo gosudarstvennogo universiteta im. V.I.Ul'yanova-Lenina.

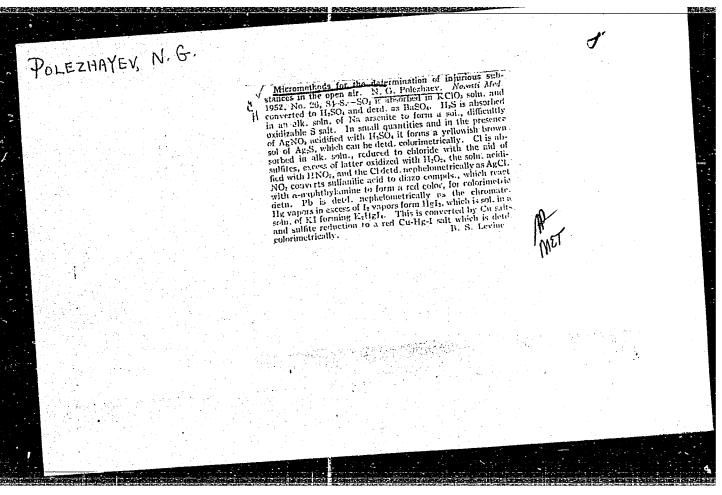




PulébilávéV H. G.			FA151T31
	151731	itrogen dioxide in the air, Ged as a basis with a potassiun absorbent.	"Methods for Determining the Presence of Sulfurous Gas and Nitrogen Dioxide in the Atmosphere," N. G. Polezhayev, V. V. Girina, Inst of Gen and Communal Hygiene, Acad Med Sci USSR, $3\frac{1}{4}$ pp "Gig i San" No 11 - \(\bar{\partial} \) \(\bar{\partial} \) \(\bar{\partial} \) "Chief changes from known methods of determining small quantities of sulfurous gas in the air are: aspiration method of sampling, use of caustic potassium solution or a 5% solution of KClO ₃ as absorbents, and introduction of five standard solutions to establish a scale. In determining the 151T31 USSR/Medicine - Air Analysis (Contd) Nov 49

POLEZHAYEV, N. G.	USSR/Medicine - Toxic Gases and Vapors "Micromethods for Determining Harmful Substances in Atmospheric Alr," N. G. Poleshayev, V. V. Girina, T. Ye. Laktionova, Inst of General and Communal Hygiene, Acad Med Sci USSR Hygiene, Acad Med Sci USSR Tin 1949, the Lab of Hygiene of Atm Air, Inst of General and Communal Hygiene, developed micromethods for the detn of Cl2, SO2, H2S, Fb, and Hg in atm air. These methods, described in detail, are based on customary USSR procedures for the detn of these substances in industrial sanitary work. By 193766 USSR/Medicine - Toxic Gases and Vapors Aug 51 replacing the usual absorption appliances with microequipment calibrated accordingly, the sensitivity of the detns was increased consider-ably.	
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POLEZHATEV, N.G. Determination of small quantities of lead and zinc in nitrate media no.2:47-49 without their previous separation. Gig. sanit., Moskva no.2:47-49 (CIML 21:5) Feb 52. 1. Of Moscow Municipal Sanitary Epidemiological Station.



AID P - 3666

: USSR/Medicine Subject

Pub. 37 - 12/19Card 1/1

Polezhayev, N. G., Kand. Med. Sci. Author

Methods of determining active chlorine in the air Title

Gig. i. san., 11, 46-47, N 1955 Periodical

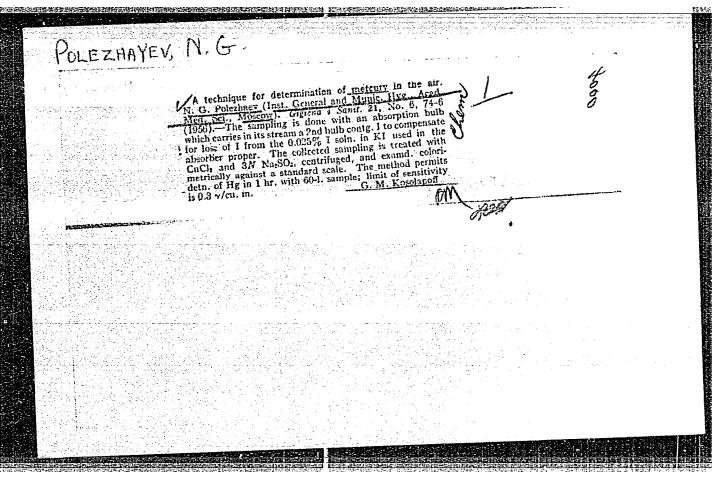
Outlines the existing methods of determining chlorine in the air, and describes in detail a method improved by Abstract

the author.

Institute of General and Municipal Hygiene, Acad. of Med. Institution:

Sci., USSR.

Submitted : D 10, 1954



Determination of free silicon dioxide in the presence of silicates in industrial discharges and atmospheric dust. Gig. i snn. 22 no.11: 91-94 N '57.

1. Iz Institute obshchey i kommunal'ncy gigiyeny AMN SSSR.

(AIR POLLUTION, determ.

by free silicon dioxice in presence of silicates in industrial discharges & atmospheric dust (Rus))

(SILICA, determination,

in dust in indust. (Rus))

(DUST,

silica, determ. in indust. (Rus))

1

LYUBIMOV, N.A.; Prinimal uchastiye: POLEZHAYEV, N.G.

Nephelometer with automatic twenty-four-hour recording of sulfur dioxide concentrations in the air. Pred. dop. kontsent. atmosf. zagr. no.5:169-179 '61. (MIRA 15:3)

1. Iz Instituta obshchey i kommunal noy gigiyeny imeni A.N. Sysina AMN SSSR.

(AIR-ANALYSIS)
(SULFUR DIOXIDE)

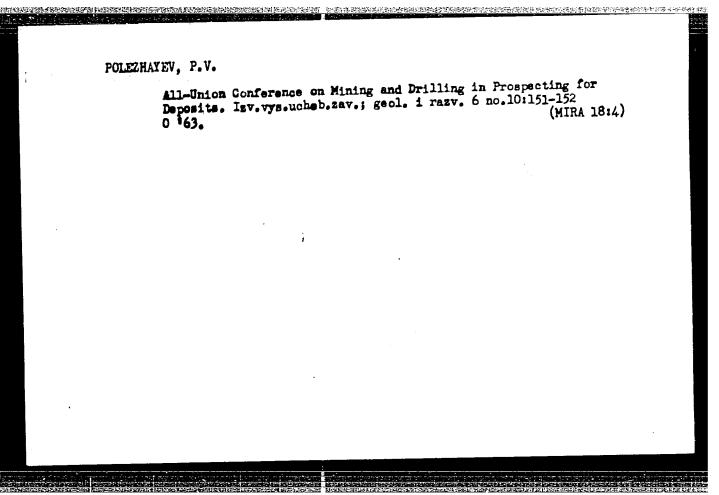
的现在分词,这种人们是是一个人的人,这种是一个人的人的人,也是是一个人的人,但是一个人的人,也是一个人的人,也是一个人的人,但是一个人的人,但是一个人的人,也是

GOL'DBERG, M.S., doktor med. nauk; GLEBOVA, L.F., kand. med. nauk; DOKUCHAYEVA, V.F., kand. med. nauk; PELCHIN, A.A., kand. med. nauk; SKVORTSOVA, N.N., kand. med. nauk; FOLEZHAYEV, N.G., kand. biol. nauk; SENDERIKHINA, D.P., kand. biol. nauk; KIMINA, S.N., nauchn. sotr. Prinimal uchastiye NEDOGIECHENKO, M.K.; LYUDKOVSKAYA, N.I., tekhn. red.

[Rethodological instructions on the organization of research on the pollution of air and the study of the effect of atmospheric pollution on the health and sanitary and hygienic living conditions of the population] Instruktivno-metodicheskie ukazaniia po organizatsii issledovaniia zagriazneniia atmosfernogo vozdukha i izucheniia vliianiia atmosfernykh zagriaznenii na zdorov'e i sanitarno-gigienicheskie usloviia zhizni naseleniia. Moskva, Medgiz, 1963. 203 p. (MIRA 16:12)

1. Russia (1923- U.S.S.R.) Vsesoyuznaya gosudarstvennaya sanitarnaya inspektsiya. 2. Starshiy gosudarstvennyy sanitarnyy inspektor Gosudarstvennoy sanitarnoy inspektsii Ministerstva zdravookhraneniya SSSR (for Nedogibchenko). (Air--Pollution)

POLEZHAYEV, P.P.	c/1963	1964
Mining Transportation	DECEASED	



POLEZHAYEV, P.V.

Effect of the depth drilled each time on the core extracted in core drilling in the Sary-Cheku deposit. Uch. sap. SAIGIMSa no.7:193-196 (MIRA 17:2)

1. Moskovskiy geologorazvedochnyy institut.

POLEZHAYEV, P.V.

Sampling of well cuttings for geological examination during core drilling. Izv. vys. ucheb. zav.; geol, i razved. 3 no. 10:110-120 0 *60. (MIRA 13:12)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze. (Core drilling)

0.0

POLEZHAYEV, P.V.

Relationship between the amount drilled per trip and the core recovery in core drilling in medium-hard and hard rocks. Razved. i okh. nedr 28 no.2:14-20 F 62. (MIRA 15:3)

1. Moskovskiy geologorazvedochnyy institut. (Core drilling)

CIA-RDP86-00513R001341720018-4 "APPROVED FOR RELEASE: 06/15/2000

Polezhayev, S.A.

USSR / Forestry. Forest Plants.

K-5

Abs Jour: Ref Zhur - Biologiya, No. 1, 1958, 1361

Author: Pesterov, A.P., Polezhayev, S.A.

: Aerial Sowing as One of the Productive Methods of Artificial Renovation of the Forests of the Title

North

Tr. nauchn. konferentsii po izuch. Vologodsk. Orig Pub:

obl., Vologda, 1956, 229-249

This is a description of experience in the application of aerial sowing in the forest economies of Vologodskaya oblast between 1940 and Abstract:

1954. The positive forestry-technical and economic results of reforesting the treeless areas of various categories, especially those devastated by fire, by using aerial sowing are

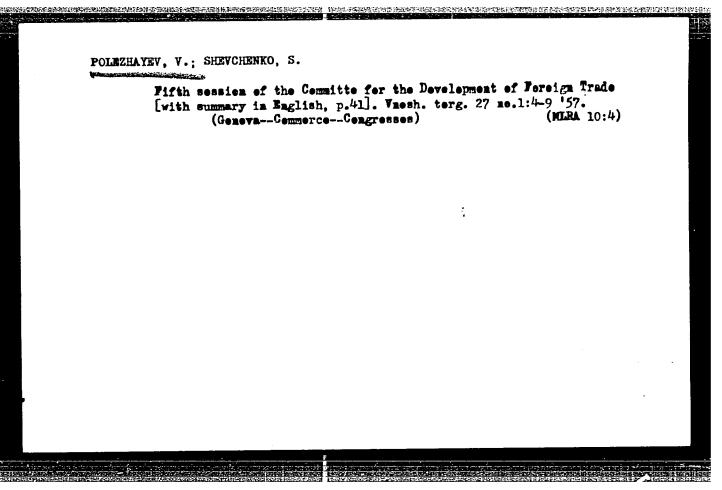
Card 1/2

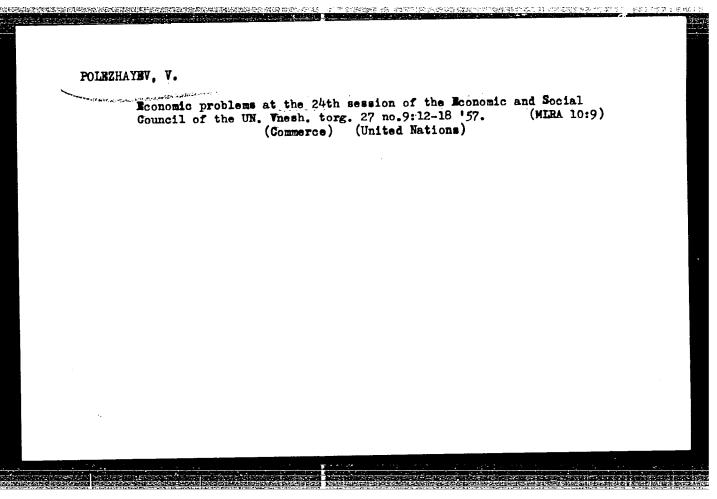
GRIGOR'YEV, Il'ya Aleksandrovich; POLEZHAYEV, Sergey Aleksandrovich; PESTEREV, Andrey Petrovich; PISMENHYY, N.R., red.; SVETLAYEVA, A.S., red.izd-va; PARAKHIHA, N.L., tekhn.red.

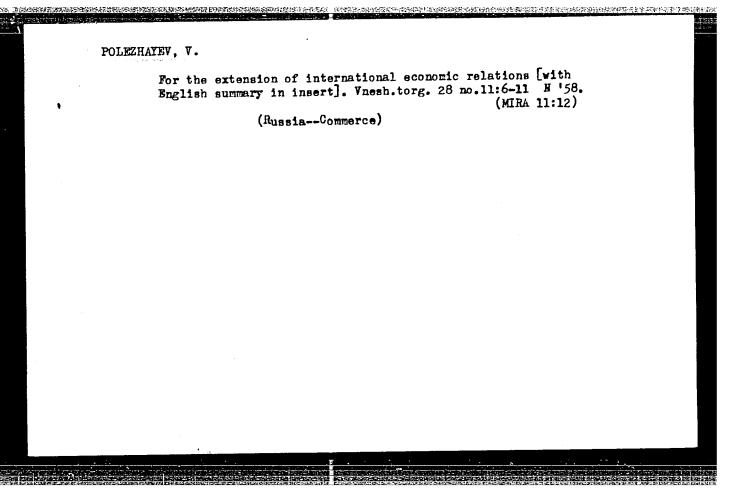
[Using airplans seeding in forestry] Primenenie seroseva v lesnom khosisistve. Moskva, Goslesbumizdat, 1959. 69 p.

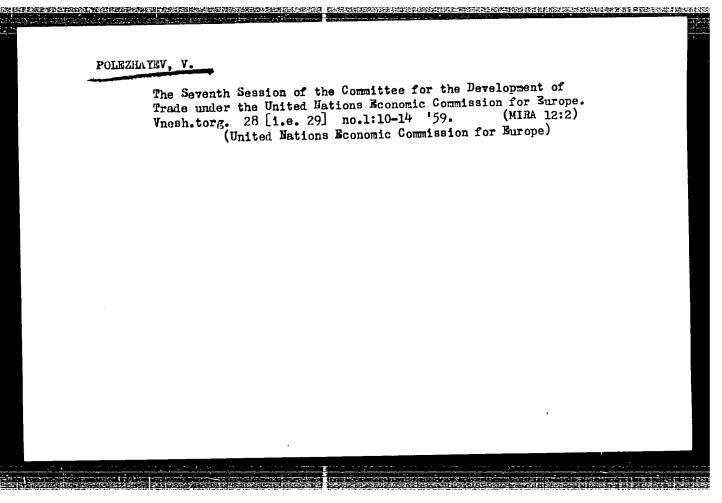
(MIRA 14:2)

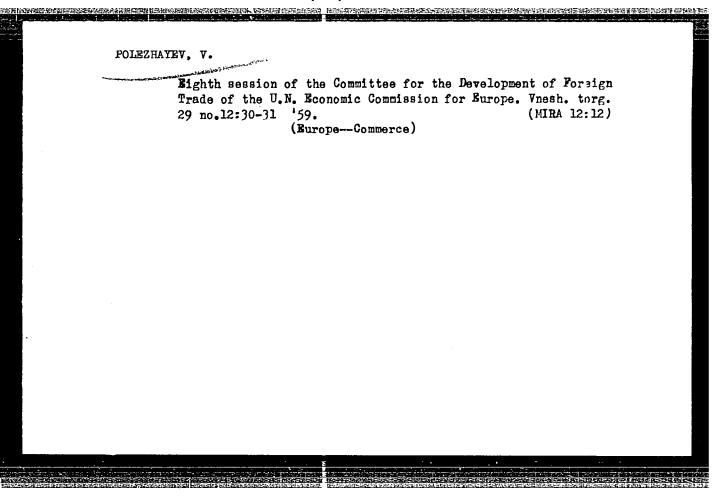
(Afforestation) (Aeronautics in agriculture)











POLE ZHAYEV, V., polkovnik

Practice fire with a range finder. Voen.vest. 43 no.10:34-35 0
(MIRA 16:12)
163.

POLEZHAYEV, V.A.

"The Cost-Price of Oil-Bearing Flax and ways of Lowering It";

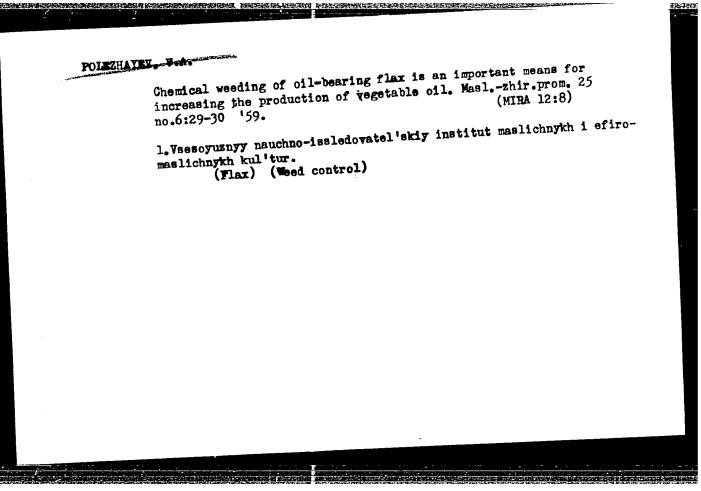
dissertation for the degree of Candidate of Economic Sciences (awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2, 1963, pp 232-236)

PERENTKIN, V.I.; POLEZHAYEV, V.A.

Split harvesting of oil flax is an important means of increasing the production of vegetable oil. Masl.-zhir. prom. 24 no. 8:4-6 '58. (MIRA 11:8)

1. Veesoyusuyy nsuchno-issledovatel'skiy institut maslichnykh i efiromaslichnykh kul'tur. (Flax--Harvesting)



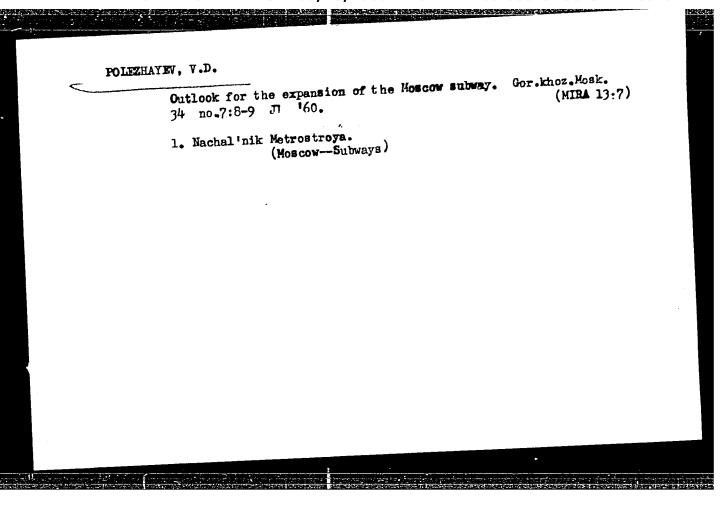
POLEZHAYEV. V.D., deputat

We can and must build high-quality buildings. Gor.khoz.Mosk.

34 mo.2:33-35 F '60.

1. Predsedatel' Postoyannoy komissii zhilishchnogo i kul'turnobytovogo stroitel'stva Meskovskogo Soveta.

(Moscow.-Building)



POLEZHAYEV, V.D.

New subway lines. Gor. khoz. Mosk. 35 no.ll:15-13 H '61.

(MIRA 16:7)

1. Nachal'nik Upravleniya stroitel'stva ordena Lenina i ordena
Trudovogo Krasnogo Znameni Moskovskogo metropolitena imeni
Trudovogo Krasnogo Znameni transportnogo stroitel'stva SSSR.

(Moscow--Subways)

POLEZHAYEV, V.D.

Kaluga radius of the subway. Gor.khoz.Mosk. 36 no.11:5-9 N '62. (MIRA 15:12)

1. Nachal'nik Upravleniya stroitel'stva ordena Lenina i ordena Trudovogo Krasnogo Znameni Moskovskogo metropolitena im. Lenina Ministerstva transportnogo stroitel'stva SSSR. (Moscow—Subways)

POLEZHAYEV, V.D.

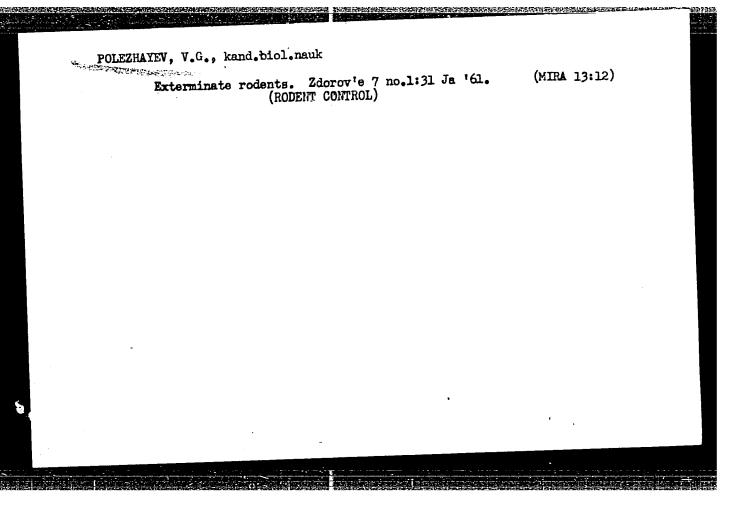
Construction of traffic intersections. Gor. khoz. Mcsk. 36 no.3:23-25 Mr '62. (MIRA 15:6)

1. Nachal'nik Upravleniya stroitel'stva ordena Lenina i ordena Trudovogo Krasnogo Znameni Moskovskogo metropolitena imeni Lenina Ministerstva transportnogo stroitel'stva SSSR.

(City traffic)

POLEZHAYEV, V. G. "The ability of rats to gnaw through scaling material", Trudy Tsentr. nauch.-issled. dezinfekts. in-ta, Issue 5, 1949, p. 217-22.

So: U-h631, 16 Sept 53, (Letopis 'Zhurnal 'nykt Statey, No. 24, 1949).



POLEZHAYEV, V.G., kand.biologicheskikh nauk

There shouldn't be any flies in the apartment! Zdorov's 7 no. 5:31

My '61.

(FLIES-EKTERMINATION)

(FLIES-EKTERMINATION)

POLEZHAYEV, V.G.; KIRIN, L.A.; TUROV, I.S.; RYUMIN, A.V.; PARNES, Ya.A., red.; BAIDINA, N.F., tekhn.red.

[Short manual on the control of rodents in rural areas]

[Short manual on the control of rodents in rural areas]
Kratkoe rukovodstvo po bor'be s gryzunami v sel'skoi mestnosti.
Kratkoe rukovodstvo po bor'be s gryzunami v sel'skoi mestnosti.
(MIRA 15:4)
Moskva, Medgiz, 1962. 56 p.
(Rodent control)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720018-4"

VASHKOV, V.I.; ISTOMINA, T.I.; POODLINA, L.N.; POLEZHAYEV, V.G.;

TIMONICH, O.P.; POZIN, Z.S., red.; PETROVA, N.K., tekhm. red.

[Handbook on disinfection, disinfestation and deratization]
Spravochmik po dezinfektsii, dezinsektsii i deratizatsii.

Moskva, Medgia, 1962. 166 p.

(INSECTS, INJURIOUS AND BENEFICIAL—CONTROL)

(DISINFECTION AND DISINFECTANTS) (RODENT CONTROL)

PCLEZHAYEV, V.G., kand. biolog. nauk

Controlling rodents in barns, granaries, and storerooms.

Zashch. rast. ot vred. i bol. 7 no.12:37-38 D '62.

Zashch. Storage) (Rodent control)

(Grain—Storage) (Rodent control)

POLEZHAYEV, V.G., mayor meditsinskoy sluzbby

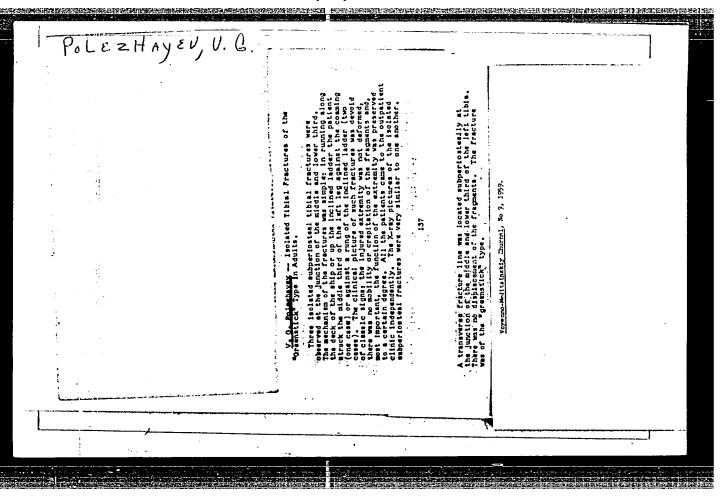
Diagnosin of pneumenie in preventive fluorography of nervicemen.

Voen.-med. zhur. no. 1:35-38 Ja 166 (NIFA 19:1)

SHUTOV, V.K.; POLEZHAY, V.G.; TERESHCHENKO, N.A.

Turbulent mixers. Mekh. stroi. 21 no.3:22-23 Mr ¹64. (MIRA 17:3)

1. KuzNIIshakhtostroy.



APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720018-4"

POLEZHAYEV, V.G.

"New Deratization Substances."

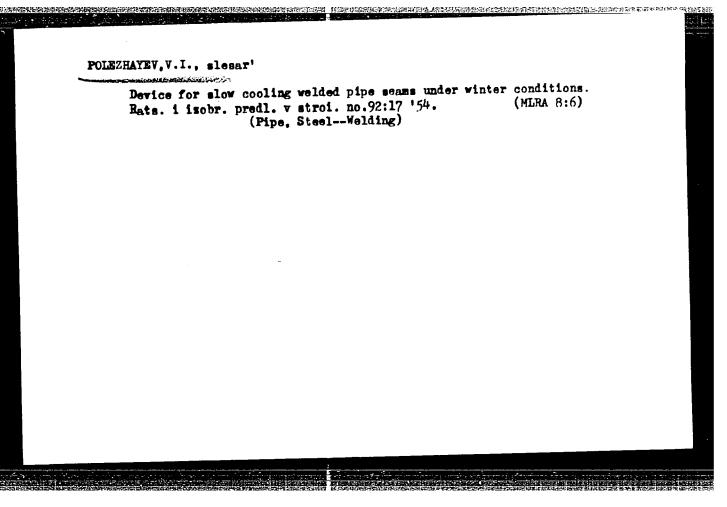
report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

POLEZHAYEV, V.G., starshiy leytenant meditsinskoy sluzhby

I-ray study of the gastrointestinal tract by gradual filling with barium gel. Voen.-med. zhur. no. 6:74 Je '60.

(MIRA 13:7)

(DIGESTIVE ORGANS—RADIOGRAPHY) (BARIUM)



POLEZHAYEV, V.I.; MASHIN, L.A.

Stereotopographic work in field parties. Geod.i kart. no.6:50-53
Ag '56. (MDRA 9:11)

(Topographical surveying)

sov/6-59-7-5/25

3(4) AUTHORS: Polezhayev, V. I., Sazonov, V. A., Salomatin, S. A.

TITLE:

On the Personnel of the North-Caucasus Aerogeodetic Service (O lyudyakh Severo-Kavkazskogo aerogeodezicheskogo predpriyatiya)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 7, pp 21 - 24 (USSR)

ABSTRACT:

The enterprise mentioned in the title was established in January 1945. It disposes of a photographic laboratory, a photogrammetric and a stcreotopographic workshop, as well as of highly qualified cooperators. A survey of the meritorious cooperators is given here. Aleksey Ivanovich Kayukov, Chief Technician, has built signals since 1925. One of the most highly qualified engineers is the Land Surveyor Pavel Ivanovich Kolin'ko who has worked since 1930.Aleksey Yevgen'yevich Garbarev has worked in the field since 1931. Aleksandr Nikolayevich Il'in, Topographer, started his activity in 1924, and is at present Chief Engineer Inspector in the department for technical control. Ivan Tikhonovich Velikanov, Topographer, has been working 25 years in the field. Vladinir Georgiyevich Tkachev has worked as a Topographer since 1931. Yevgeniy Nikolayevich Vasyutkin has been working 25 years, including some years in the Taiga

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sov/6-59-7-5/25

On the Personnel of the North-Caucasus Aerogeodetic Service

of the Soviet Far East. His work is described in the book by G. A. Fedoseyev. The leaders of the largest parties of the department are Yu. N. Bochkov and M. I. Kalganov. Among the young cooperators, the following are mentioned: Maryarita Dement'yevna Dubrova has worked for 5 years and is the best Topographer of the enterprise. She completed her studies ut the Leningradskiy topograficheskiy tekhnikum (Leningrad Topo-Plant). The pupils of the Tbilisskiy topograficheskiy tekhnikum (Tbilisi Topographical Plant), the Members of the Komsomol Genrikh Grigor yevich Ozhegov and Valentina Grigor yevna Ozhegova have become the best cooperators within 5 years. At present, they are studying at a university. Yevgeniy Andreyevich Pavlyukov, Topographer, attended the course of topographers in 1954. Engineer Petr Nikolayevich Pronchenko attended the MIIGAik in 1956, conducted a party since 1958, and is at present Chief Engineer of the topographical department. Valeriy Mikhaylovich Izvekov attended the L'vovskiy politekhnicheskiy institut (L'vov Polytechnical Plant) and has been a party leader since 1959. Mikhail Petrovich Galkin attended the Kiyevskiy topograficheskiy tekhnikum (Kiyev Topo-

Card 2/3

On the Personnel of the North-Caucasus Aerogeodetic 50V/6-59-7-5/25 Service

School). Mariya Selivanovna Abramova, Topographer, graphical attended the same school in 1956. V. M. Filippova, G. A. Yurkova, V. S. Mel'nikova, K. F. Ovsyannikova, and T. B. Malakhova have worked for over 10 years as draftswomen in the final compilation of topographic maps. More than 120 topographertechnicians, draftsmen and other cooperators are studying at the correspondence secondary schools and universities, such as: Yu. M. Nikitin, Chief-Topographer, L. N. Nikitina, Map Editor, V. M. Sapatova, Technician, Yu. N. Vostrikov, Technician. The following persons have already completed their studies: Comrade A. G. Kariy, P. F. Dobritsa, L. Ye. Mikhaylov, I. I. Belyakov, V. K. Shevchenko, Ye. I. Demeshko, B. G. Telezhkin attended the Kiyevskiy topograficheskiy tekhnikum (Kiyev Topographical G. A. Chernova, Chief-Technician, attended the Lenin-School). gradskiy gosudarstvennyy universitet (Leningrad State University).

Card 3/3

s/096/62/000/002/006/008 E031/E584

26.5100 AUTHORS:

Petrazhitskiy, G.B., Candidate of Technical Sciences

and Polezhavev, V.I., Engineer

An engineering method of calculating the non-TITLE:

stationary heat conduction in thin sandwich walls

Teploenergetika, no.2, 1962, 73-76

An absolutely stable finite difference scheme is PERIODICAL: proposed for the one-dimensional heat conduction equation in which, for given Δx , the size of the time step is only bounded by the permissible error of the approximation resulting from the replacement of the differential equation by finite difference equations. An implicit finite difference relation for the temperature on the boundary corresponding to boundary conditions of the third kind can be obtained from the equation of heat balance for a boundary layer of thickness $\Delta x/2$ calculated for A direct method of solving the resulting system of algebraic equations is described. The method is applicable in the case of radiation from the boundaries and methods of linearising the radiative terms are discussed. In Card 1/2

CIA-RDP86-00513R001341720018-4" APPROVED FOR RELEASE: 06/15/2000

ACC NR. AP7001569

SOURCE CODE: UR/0421/66/000/006/0034/0044?

AUTHOR: Polezhayev, V. I. (Moscow)

ORG: none

TITLE: Numerical solution of a system of one-dimensional unsteady Navier-Stokes equations for a compressible gas

SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 6, 1966, 34-44

TOPIC TAGS: Navier Stokes equation, compressible gas flow, gas dynamics, unsteady flow, viscous fluid, shock wave, finite difference

ABSTRACT: The solution of the one-dimensional, unsteady, compressible Navier-Stokes equations is discussed using a finite difference scheme. The governing equations are nondimensionalized and reduced to the form

$$\frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} = -\frac{1}{\kappa \rho C_{M}^{2}} \frac{\partial p}{\partial x} + \frac{1}{\rho C_{R}} \frac{\partial}{\partial x} \mu^{+} \frac{\partial u}{\partial x} + C_{F}, \frac{\partial p}{\partial t} + \frac{\partial pu}{\partial x} = 0$$

$$\frac{\partial T}{\partial t} + u \frac{\partial T}{\partial x} = \frac{\kappa}{\rho c_{p} C_{R}^{p}} \frac{\partial}{\partial x} k \frac{\partial T}{\partial x} - \frac{C_{1}}{\rho c_{p}} p \frac{\partial u}{\partial x} + \frac{\mu^{+} C_{c}}{\rho c_{p} C_{R}} \left(\frac{\partial u}{\partial x}\right)^{2}$$

where the various nondimensional quantities are given by

$$\kappa = \frac{c_{p_1}}{c_{p_1}}, \quad C_M = \frac{V_1}{\sqrt{\kappa p_1 l_{p_1}}}, \quad C_R = \frac{V_1 L}{\mu_1} \rho_1, \quad C_F = \frac{X_L}{V_1^2}, \quad P = \frac{\mu_1 c_{p_1}}{k_1},$$

Card 1/2

ACC NR: AP7001569

$$C_1 = \frac{p_1}{\rho_1 c_{v_i} T_1}, \ C_e = \frac{V_1^2}{c_{v_i} T_1}.$$

The thermal conductivity, viscosity, and the specific heat are assumed to be functions of the temperature. These equations are written in a finite difference form using the explicit scheme with the stability criterion

$$\tau \sim \min \left\{ \frac{h}{\mid u \mid + 1/U_M}, C_R h^2 \right\}^{1}$$

Three physical problems are solved with this method. The first considers the structure of a one-dimensional shock wave with the viscosity varying according to the Sutherland law. The results agree very well with the exact solution (for a Prandtl number of 0.75). The second problem deals with the flow of a gas between two plane walls, the temperature on one of which is suddenly raised to a level T_{w2} . The

resulting temperature, velocity, and pressure waves are calculated with different mesh sizes, and the results are compared. The third case considers the propagation of initial discontinuities in the temperature, density, and pressure in an otherwise homogeneous infinite gas. Orig. art. has: 22 equations and 9 figures.

SUB CODE: 20/ SUBM DATE: 13Jun66/ ORIG REF: 009/ OTH REF: 006

Card 2/2

8/0124/63/000/005/V011/V011 EWP(r)/BDS L 15745-63 ACCESSION NR: AR3002685 SOURCE: Rzh. Mekhanika, Abs. 5V77 AUTHOR: Shevlyakov, Yu.A.; Polezhayev, V. M.; Rozenberg, L. B. TITLE: Experimental study of the stress-deformed state of mildly sloping spherical_shells CITED SOURCE: Nauchn. zap. Dnepropetr. un-t, v. 55, 1961, 3-10 TOPIC TAGS: shell, stress, sag, strain, deformation, slope, spherical sphere, TRANSLATION: A short account of the experimental determination of the deformation of a thin shell with gently sloping surface, and hinge fastened edges, loaded at the top by a concentrated vertical force. The height of the rise of the shell was less than 1/5 the magnitude of its base. The studied shells were A description is given of the set-up for determination of the stamped from steel sheets. sagging of the shell on the UIM-500 and the measuring apparatus for determination Card 1/2

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of the	deformation at	the surface	of the shell		en grafin en		
	Comparison is made of experimental data on the sag and deformation the theoretical data calculated in (Nauchn. zap. Dnepropetr. un-t, 1961,						
55, 49-	72 RZh Mekh, 19	62, 10V70)	ted in (Nauch There are mi	n. zap. Dnepr sprints. A.	opetr. un-t A. Shpak	, 1961,	
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124-1957-1-287

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 34 (USSR)

AUTHORS: Polezhayev, V. M., Rozenberg, L. B., Zagubizhenko, P. A.

TITLE: Experimental Investigation of the Aerodynamic Characteristics

of Automobile Fans (Eksperimental'noye issledovaniya

aerodinamicheskikh kharakteristik avtomobil'nykh ventilyatorov)

PERIODICAL: Nauch. zap. Dnepropetrov. un-ta, 1953, Nr 41, pp 111-119

ABSTRACT: Results of the experimental investigation of the aerodynamic

characteristics of automobile fans are shown for the foreign

makes GMC, International, and White.

I. S. Simonov

1. Automobiles 2. Fans--Aerodynamic characteristics

Card 1/1

CIA-RDP86-00513R001341720018-4 "APPROVED FOR RELEASE: 06/15/2000

POLEZHAYEV, V.M.

137-58-2-2899

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 99 (USSR)

Tul'chinskiy, B.G., Polezhayev, V.M., Rozenberg, L.B. AUTHORS:

The Force Exerted in Heading Bolts in the Manufacture of Bolts on Cold-upsetting Machines (Eksperimental'noye issledovaniye sily vysadki golovki bolta pri izgotovlenii yego na kholodnovy-TITLE:

sadochnom avtomate)

PERIODICAL: Nauchn. Eap. Dnepropetr. un-t, 1956, Vol 45, pp 177-181

An account is given of methods derived and results obtained from an experimental investigation made under production conditions at the Dnepropetrovsk Metal-goods Plant. The investigation con-ABSTRACT: sisted in recording on a loop oscillograph the force exerted by the first and second upsetting passes, the operation of the forming punch, and the readings of a timing device'- with the aid of wire strain gages pasted to the surface of the forming punch. It was found that the maximum force exerted by the first and second upsetting pass differed from the maximum static-compression force by anywhere up to 5 percent. Attention is drawn to the great disparity in the magnitude of the force as computed with the formula

given in the book "Vysadochnyye i otreznyye pressy-avtomaty" Card 1/2

CIA-RDP86-00513R001341720018-4" **APPROVED FOR RELEASE: 06/15/2000**

137-58-2-2899

The Force Exerted in Heading Bolts in the Manufacture of Bolts (cont.)

(Automatic Upsetting and Shearing Presses) by G.A. Navrotskiy and its magnitude as determined in the present investigation.

G.F.

1. Belts Manufacture 2. Forge presses Performance Test results

Card 2/2

POLEZHAYEV, Valentin Nikolayevich; KAPELINSKIY, Yu.N., red.;
ISKANDARYAN, A.A., red. izd-va; TSAGURIYA, G.M., tekhn.
red.

[Foreign trade as an important factor of peaceful
coexistence] Vneshniaia torgovlia - vazhryi faktor mirnogo
sosushchestvovaniia. Moskva, Vneshtorgizdat, 1962. 58 p.

(Russia--Commerce)

(MIRA 15:11)

POLEZHAYEV, Valentin Nikolayevich; YAKOBSON, Gustav Maksimovich; YER-MACHKOVA, G.S., red.1zd-va; PAVLOVSKIY, A.A., tekhm. red.

[International economic organizations and agreements] Mezhdunarodnye ekonomicheskie organizatsii i soglasheniia. Moskva, Vneshtorgizdat, 1961. 265 p. (MIRA 14:9)

(International organizations) (Commercial treaties)